

Appl. No. 09/928,925
Amdt. Dated August , 2005
Reply to Office Action Mailed May 20, 2005

Amendments to the Specification:

Please amend paragraph [0017] as follows:

[0017] Periodically during the off-line mode, the wireless computing device performs a synchronization; i.e., goes on-line in order to propagate to the remote data storage all data objects and actions saved since the last synchronization. A time interval between synchronizations is [[set]] either set by a user of the wireless computing device, set by a system administrator on the remote server, or determined by external circumstances such as whether or not the wireless computing device is able to establish a connection with the remote server. In addition, the time interval can be determined by circumstances internal to the wireless computing device or remote server such as whether or not either the wireless computing device or the remote server has made changes to the data objects that need to be synchronized. The time interval between synchronizations can be either regular or irregular and vary from less than a second to longer than a year. During synchronization, the server applies the data objects and corresponding actions to the server data storage either in the order the actions are received or based upon the corresponding timestamp timestamps. Update replication enables update operations on data objects to be performed locally when the mobile computing device is off-line. The update operations are saved and forwarded to the remote server during synchronization. The locally performed update operation is then executed on the remote server and results are transmitted back to the wireless computing device.

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Please amend paragraph [072] as follows:

[072] If the result flag of the syncRequest object is set to "All," then the server 107 returns the IDs of all objects deleted since the last getDeletes operation. If a list of IDs was provided, the syncResult object will also contain the status of each ID on the list. A status of "Not Matched" indicates that the corresponding object no longer exists on the server 107. A status of "Updated" indicates that the corresponding object exists on the server 107 and has been updated since the timestamp on the getDeletes operation. In this case, a copy of the "Updated" object is also returned to the PDA 101.

Please amend paragraph [078] as follows:

[078] Once the server 107 receives the syncRequest object from the PDA 101, the server 107 generates the corresponding ~~syncResults~~ syncResult object, which includes a base object, which may not be the same as the new object sent by the PDA 101, showing the new object as recreated in the server's 107 database. If the result flag of the syncRequest object is set to "All," the syncResult object contains all objects and sub-objects involved in the sendCreate operation. This includes the base object showing the added object after the operation, added objects that were updated during the sendCreate process, and failure results for objects that could not be added. The "All" result flag setting is the only setting in which both the object and a status of "Succeeded" is returned. A status of "Succeeded" means that the object was added to the server 107 database without any changes. If the result flag is set to "Updates," an ID and a status of "Succeeded," but no object, is returned. If the status of the added object is "Updated," then the

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ID, the status and a copy of the object are returned. Typically, this situation implies that there were fields, not present in the original request, that needed to be set by the server 107. In this case, the object ID, set by the server 107, is returned in the message field. If the add fails, for any particular object, a status of "Failed," an error message in the message field and the original object are returned to the PDA 101.

Please amend paragraph [079] as follows:

[079] If the syncRequest object sets the result flag to the value "IDs," the ~~syncResults~~ syncResult object includes only the server-created IDs and the statuses of all objects sent -- no objects are returned to the PDA 101. If the result flag is set to the value "Failures," then the ~~syncResults~~ syncResult object contains only the temporary ID, the status and a message relating to the reason for the failure. If the result flag is set to the value "Silent," then no information is returned to the PDA 101 about whether or not an operation succeeded or failed.

Please amend paragraph [080] as follows:

[080] If the result flag is set to the value "All" or "Update," the client should update the local data repository based upon the results as indicated by the ~~syncResults~~ syncResult object. If the result flag is set to the value "Failure" or "Silent," the PDA 101 should take steps to ensure the local information is still correct. If a syncResult object returns a status of "Failed," then the PDA 101 should take steps to correct the problem, perhaps by resubmitting the corresponding operations. Once the

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sendCreate operation is confirmed to be complete on the server 107, as evidenced by a suitable ~~syncResults~~ syncResult object, the original object can be deleted from the local data repository. If a newly created object matches a filter, it will be recreated at the next synchronization. This ensures that the PDA 101 has an accurate representation of the object. In some instances, the server 107 will fill in default fields, or otherwise update the new object before adding the object to the database.

Please amend paragraph [088], sub-paragraph (4) as follows:

(4) A syncObject of status "Not Matched" was sent in the syncRequest object as previously matching a particular filter. However, the object has since been updated or deleted, and no longer matches the corresponding search string. The PDA 101 sets the object state in the local data repository to "Stale" and the object ID is removed from the list of IDs matching the filter. If the object does not exist in the local data repository, then the object ID can be removed from the list of IDs.

Please amend paragraph [089], sub-paragraph (1) as follows:

(1) If the value of the result flag is "All," the server 107 returns all objects that match the search string of the data filter. The object status will be filled in, and the entire object will be returned. If an ID no longer matches the filter, the object is marked "Not Matched" and the ID is returned. In this case, no object is returned.

Please amend paragraph [0110] as follows:

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[0110] Like the Find Product screen display 1101, the screen display 1201 enables the user to enter a data filter, albeit a more complex one than the data filters of the screen display 1101. A Search field 1225 enables the user to select multiple attributes of the Products database, one attribute at a time. A Search Value field 1227 enables the user to enter a price or other appropriate value to employ in a search of the database. Instead of the two operator entry fields provided in the screen display 1101, the screen display 1201 includes four operator entry fields 1207, a '=' operator, or "equal to," a "!=" operator, or "not equal to," a ">=" operator, or "greater than or equal to," and a "<=" operator, or "less than or equal to." A Show Values check box 1209 functions in [[a]] similar fashion [[as]] to the Show Values check box 1109 of the screen display 1101.